ABSTRACT OF THE DISCLOSURE

A solution is described that declares elements, attributes, and values that define a hierarchical data file or a markup-language document. The declarations by the solution are within the solution and include a presentation application and a markup-language schema from which the markup-language document can be inferred as having a structure based on the markup-language schema. Portions of the markup-language document are logically coupled with fragments of the markup-language schema. The presentation application, when executed, forms an electronic form containing data-entry fields associated with the coupled portions. The solution can include a manifest of all files that can be used for representing the markup-language document in the electronic form. The files also allow a user in input data into the one or more data-entry fields and control the validation of the data that the user inputs into the one or more data-entry fields.